

S2 Table. Summary of model parameters describing disease progression and choices for the simulations.

| Name | Description | Value |
|---------------------------|---|-----------|
| n_E | No. of latency Erlang states | 16 |
| n_P | No. of prodromal Erlang states | 16 |
| n_I | No. of fully contagious Erlang states | 16 |
| n_L | No. of late-infectious Erlang states | 16 |
| D_E | Average duration of latency period | 3.7 days |
| D_P | Average duration of prodromal period | 1 day |
| D_I | Average duration of fully contagious period | 5 days |
| D_L | Average duration of late infectious period | 5 days |
| ε | Transition rate of latent states | n_E/D_E |
| φ | Transition rate of prodromal states | n_P/D_P |
| γ | Transition rate of early infectious states | n_I/D_I |
| δ | Transition rate of late-infectious states | n_L/D_L |
| α | Transition rate from transient multi-infections to multi-infected states | 3.2/day |
| f_{Sick} | Fraction of symptomatic (sick) infections | 58% |
| \tilde{f}_{Sick} | Fraction of sympt. multi-infections in fully contagious & late inf. periods | 64.4% |
| f_{Iso} | Fraction of single-infected (sick) who are isolated (or home isolated) | 48% |
| \tilde{f}_{Iso} | Fraction of multi-infected (sick) who are isolated (or home isolated) | 52.8% |
| f_{Dead} | Fraction of single-infected (sick) who die from the disease | 4% |
| \tilde{f}_{Dead} | Fraction of multi-infected (sick) who die from the disease | 5% |

Summary of parameters describing the number of Erlang states, durations, transition rates, morbidity and mortality, and their default parameter choices.